JAN 28 2005
PATENT & TRADEMARK OFFICE

PTO/SB/21 (09-04)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

		Application Number	10/071,377
		Filing Date	February 7, 2002
		First Named Inventor	Timothy B. KARPISHIN
		Art Unit	1624
		Examiner Name	B. Coleman
Total Number of Pages in This Submission	42+327 References	Attorney Docket Number	529212000300

ENCLOSURES (*Check all that apply*)

- [x] Fee Transmittal Form + duplicate for fee processing (2 pages)
- [] Fee Attached
- [] Amendment/Reply
- [] After Final
- [] Affidavits/declaration(s)
- [] Extension of Time Request
- [] Express Abandonment Request
- [x] Information Disclosure Statement (3 pages)
- [] Certified Copy of Priority Document(s)
- [] Reply to Missing Parts/ Incomplete Application
- [] Reply to Missing Parts under 37 CFR 1.52 or 1.53
- [] Drawing(s)
- [] Licensing-related Papers
- [] Petition
- [] Petition to Convert to a Provisional Application
- [] Power of Attorney, Revocation Change of Correspondence Address
- [] Terminal Disclaimer
- [] Request for Refund
- [] CD, Number of CD(s) _____
- [] Landscape Table on CD
- [] After Allowance Communication To TC
- [] Appeal Communication to Board of Appeals and Interferences
- [] Appeal Communication to TC **(Appeal Notice, Brief, Reply Brief)**
- [] Proprietary Information
- [] Status Letter
- [x] Other Enclosure(s) (please Identify below):

Form PTO-1449
(18 pages in duplicate)
References 327
Return Receipt Postcard

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	MORRISON & FOERSTER LLP (Customer No. 25226)		
Signature			
Printed name	John W. Tessman		
Date	January 28, 2005	Reg. No.	43,949

I hereby certify that this correspondence is being hand delivered to: Customer Window, U.S. Patent and Trademark Office, 220 20th Street S., Crystal Plaza Two, Lobby, Room 1B03, Arlington, Virginia 22202, on the date shown below.

Dated: January 28, 2005 Signature: _____
Sheri Hall-White

OIPE
JAN 2 8 2005
PATENT & TRADEMARK

PATENT
Docket No.529212000300

CERTIFICATE OF MAILING BY "HAND DELIVERY"

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Date: _____ Signature: _____
Sheri-Hall White

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Timothy B. KARPISHIN et al.

Serial No.: 10/071,377

Filing Date: February 7, 2002

For: AMPHIPHILIC MOLECULAR MODULES AND CONSTRUCTS BASED THEREON

Examiner: B. Coleman

Group Art Unit: 1624

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97 & 1.98

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Pursuant to 37 C.F.R. § 1.97 and § 1.98, Applicants submit for consideration in the above-identified application the documents listed on the attached Form PTO-1449. Copies of the documents are also submitted herewith. The Examiner is requested to make these documents of record.

OIPE
JAN 2 8 2005
PATENT & TRADEMARK OFFICE

PTO/SB/17 (12-04)
Approved for use through 7/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL
For FY 2005

[X] Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 180

Complete if Known	
Application Number	10/071,377
Filing Date	February 7, 2002
First Named Inventor	Timothy B. KARPISHIN
Examiner Name	B. Coleman
Art Unit	1624
Attorney Docket No.	529212000300

METHOD OF PAYMENT (check all that apply)

[] Check [] Credit Card [] Money Order [] None [] Other (please identify): _____

[X] Deposit Account Deposit Account Number: 03-1952 Deposit Account Name: Morrison & Foerster LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

[X] Charge fee(s) indicated below
[] Charge fee(s) indicated below, **except for the filing fee**
[x] Charge any additional fee(s) or any underpayment of fee(s) under 37 CFR 1.16 and 1.17
[x] Credit any overpayments

FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

	FILING FEES		SEARCH FEES		EXAMINATION FEES		
Application Type	Fee ($)	Small Entity Fee ($)	Fee ($)	Small Entity Fee ($)	Fee ($)	Small Entity Fee ($)	Fees Paid ($)
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee ($)	Small Entity Fee ($)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee ($)	Fee Paid ($)
56 - 77 =	0	x 25	= 0

Multiple Dependent Claims: Fee ($) 180 — Fee Paid ($) _____

Indep. Claims	Extra Claims	Fee ($)	Fee Paid ($)
9 - 9 =	0	x 100	= 0

3. APPLICATION SIZE FEE

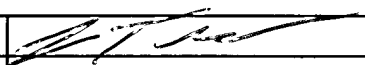
If the specification and drawings exceed 100 sheets of paper, the application size fee due is $250 ($125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee ($)	Fee Paid ($)
_____ - 100 =	_____ /50	_____ (round up to a whole number) x	125	= _____

4. OTHER FEE(S)

	Fees Paid ($)
Non-English Specification, $130 fee (no small entity discount)	
Other: **1806** Submission of an Information Disclosure Statement	180.00

SUBMITTED BY

Signature		Registration No. (Attorney/Agent)	43,949	Telephone	(650) 813-5786
Name (Print/Type)	John W. Tessman			Date	01/18/05

This Information Disclosure Statement is submitted:

☐ With the application; accordingly, no fee or separate requirements are required.

☐ Before the mailing of a first Office Action after the filing of a Request for Continued Examination under § 1.114. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.

☐ Within three months of the application filing date or before mailing of a first Office Action on the merits; accordingly, no fee or separate requirements are required. However, if applicable, a certification under 37 C.F.R. § 1.97(e)(1) has been provided.

☒ After receipt of a first Office Action on the merits but before mailing of a final Office Action or Notice of Allowance.

- ☐ A fee is required. A check in the amount of __ is enclosed.
- ☒ A fee is required. Accordingly, a Fee Transmittal form (PTO/SB/17) is attached to this submission in duplicate.
- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above; accordingly; no fee is believed to be due.

☐ After mailing of a final Office Action or Notice of Allowance, but before payment of the issue fee.

- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a check in the amount of __ is enclosed.
- ☐ A Certification under 37 C.F.R. § 1.97(e) is provided above and a Fee Transmittal form (PTO/SB/17 is attached to this submission in duplicate.)

Applicants would appreciate the Examiner initialing and returning the Form PTO-1449, indicating that the information has been considered and made of record herein.

The information contained in this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.97 and § 1.98 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

In the unlikely event that the transmittal form is separated from this document and the Patent Office determines that an extension and/or other relief (such as payment of a fee under 37 C.F.R. §1.17(p)) is required, Applicants petition for any required relief including extensions of time and authorize the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 03-1952** referencing 529212000300. However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Dated: 11/18/03

Respectfully submitted,

By: _____

John W. Tessman
Registration No. 43,949

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Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

JAN 28 2005
PATENT & TRADEMARK OFFICE

Docket Number 529212000300	Application Number 10/071,377
Applicant: Timothy B. KARPISHIN et al.	
Filing Date February 7, 2002	Group Art Unit 1624
Hand delivery date: January 28, 2005	

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
	1.	07/12/2001	2001/0007771	Sullivan et al.			
	2.	07/19/2001	2001/0008772	Smith et al.			
	3.	07/26/2001	2001/0009904	Wolff et al.			
	4.	09/06/2001	2001/0020011	Mathiowitz et al.			
	5.	09/13/2001	2001/0021703	Kosak			
	6.	02/28/2002	2002/0026047	Gale et al.			
	7.	10/23/2003	2003/0199688	Kriesel et al.			
	8.	06/03/2004	2004/0106741	Kriesel et al.			
	9.	11/12/1974	3,847,949	Pedersen et al.			
	10.	06/21/1977	4,031,111	Pedersen et al.			
	11.	05/22/1979	4,155,793	Salemme et al.			
	12.	04/05/1983	4,379,041	Petranek et al.			
	13.	03/20/1984	4,438,251	Herweh			
	14.	11/19/1985	4,554,076	Speaker			
	15.	04/28/1987	4,661,526	Ford			
	16.	02/02/1988	4,722,856	Albrecht et al.			
	17.	07/19/1988	4,758,342	Heckmann et al.			
	18.	05/09/1989	4,828,917	Wegner et al.			
	19.	06/13/1989	4,839,219	Uekita et al.			
	20.	02/20/1990	4,902,424	Wrasidlo			
	21.	03/20/1990	4,910,293	Uekita et al.			
	22.	08/14/1990	4,948,506	Lonsdale et al.			
	23.	06/11/1991	5,023,252	Hseih			
	24.	07/30/1991	5,035,762	Wegner et al.			
	25.	10/22/1991	5,059,510	Jones, Jr. et al.			
	26.	11/12/1991	5,064,956	Kruper, Jr.			

EXAMINER:	DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

CIPE JAN 28 2005 PATENT & TRADEMARK OFFICE

Docket Number 529212000300	Application Number 10/071,377
Applicant: Timothy B. KARPISHIN et al.	
Filing Date February 7, 2002	Group Art Unit 1624
Hand delivery date: January 28, 2005	

	27.	12/03/1991	5,069,945	Wrasidlo			
	28.	04/07/1992	5,102,798	Guiseppi-Elie			
	29.	09/01/1992	5,143,784	Mita			
	30.	12/22/1992	5,173,365	Singh et al.			
	31.	01/12/1993	5,179,213	Bradshaw et al.			
	32.	03/23/1993	5,196,257	Barraud et al.			
	33.	04/20/1993	5,204,239	Gitler et al.			
	34.	07/20/1993	5,229,465	Tsuchida et al.			
	35.	07/27/1993	5,231,161	Brunelle et al.			
	36.	08/17/1993	5,237,067	Schumaker			
	37.	08/24/1993	5,238,570	Hugl et al.			
	38.	11/09/1993	5,259,957	Rosenfeld et al.			
	39.	08/30/1994	5,342,934	Still et al.			
	40.	10/18/1994	5,357,029	Takekoshi et al.			
	41.	11/08/1994	5,362,476	Sherry et al.			
	42.	11/15/1994	5,364,614	Platzek et al.			
	43.	11/29/1994	5,368,712	Tomich et al.			
	44.	11/29/1994	5,368,889	Johnson et al.			
	45.	01/24/1995	5,384,168	Dübal et al.			
	46.	04/11/1995	5,405,552	Jungbauer et al.			
	47.	02/06/1996	5,489,425	Kruper, Jr. et al.			
	48.	05/14/1996	5,516,890	Tomich et al.			
	49.	10/01/1996	5,560,151	Roberts			
	50.	10/01/1996	5,561,043	Cantor et al.			
	51.	01/14/1997	5,593,656	Belinka, Jr. et al.			
	52.	04/22/1997	5,622,945	Sessler et al.			
	53.	05/20/1997	5,631,368	Schultze et al.			
	54.	09/23/1997	5,670,480	Hogan, Jr.			
	55.	10/14/1997	5,677,399	Hall			

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	56.	10/14/1997	5,677,446	Schultze et al.			
	57.	12/09/1997	5,695,887	Amatucci et al.			
	58.	12/30/1997	5,702,777	Rösch et al.			
	59.	08/04/1998	5,788,862	Degen et al.			
	60.	08/25/1998	5,798,261	Koontz			
	61.	11/03/1998	5,830,539	Yan et al.			
	62.	11/03/1998	5,831,087	Haubs et al.			
	63.	12/01/1998	5,843,351	Hirose et al.			
	64.	03/16/1999	5,883,246	Brückner et al.			
	65.	06/01/1999	5,908,692	Hamers et al.			
	66.	06/15/1999	5,912,069	Yializis et al.			
	67.	07/06/1999	5,919,369	Ash			
	68.	07/06/1999	5,919,370	Röttger et al.			
	69.	08/03/1999	5,933,819	Skolnick et al.			
	70.	08/10/1999	5,936,100	Furstner et al.			
	71.	10/12/1999	5,965,133	Cantor et al.			
	72.	12/07/1999	5,997,961	Feng et al.			
	73.	02/15/2000	6,024,873	Hirose et al.			
	74.	03/07/2000	6,033,773	Yang et al.			
	75.	03/14/2000	6,036,778	Albrecht et al.			
	76.	05/02/2000	6,056,903	Greenwood et al.			
	77.	06/06/2000	6,072,044	Seeman et al.			
	78.	06/20/2000	6,076,318	Grimm et al.			
	79.	08/22/2000	6,107,496	Osterholdt et al.			
	80.	09/19/2000	6,121,466	Osterholt et al.			
	81.	01/09/2001	6,171,497	Hirose et al.			
	82.	01/23/2001	6,177,181	Hamada et al.			
	83.	02/27/2001	6,194,388	Krieg et al.			
	84.	03/20/2001	6,203,850	Nomura			

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Docket Number 529212000300	Application Number 10/071,377
Applicant: Timothy B. KARPISHIN et al.	
Filing Date February 7, 2002	Group Art Unit 1624
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	85.	04/03/2001	6,210,551	Osman et al.			
	86.	04/17/2001	6,217,873	Rose et al.			
	87.	07/17/2001	6,262,257	Gale et al.			
	88.	08/14/2001	6,275,866	Boulia et al.			
	89.	09/25/2001	6,294,697	Wilbur et al.			
	90.	10/30/2001	6,309,546	Herrmann et al.			
	91.	10/30/2001	6,309,723	Ding et al.			
	92.	01/22/2002	6,340,588	Nova et al.			
	93.	04/30/2002	6,380,347	Lau et al.			
	94.	02/25/2003	6,524,613	Steer et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES	Translation NO
	95.	05/08/1985	EP 0 140 308	Europe				
	96.	08/28/1985	EP 0 153 133	Europe				
	97.	06/25/1986	EP 0 185 573	Europe			Abstract	
	98.	07/16/1986	EP 0 187 702	Europe				
	99.	03/09/1988	EP 0 259 212	Europe			Abstract	
	100.	06/21/1989	EP 0 321 201	Europe				
	101.	09/26/1990	EP 0 388 758	Europe			Abstract	
	102.	05/02/1991	EP 0 424 688	Europe				
	103.	08/14/1991	EP 0 441 120	Europe				
	104.	06/05/2002	EP 1 210 971	Europe				
	105.	03/06/1981	FR 2 646 161	France			Abstract	
	106.	09/24/1998	DE 197 11 078	Germany			Abstract	
	107.	08/06/1992	WO 92/12708	WIPO				
	108.	10/27/1994	WO 94/24153	WIPO				
	109.	08/03/1995	WO 95/20320	WIPO				

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	110.	12/12/1996	WO 96/39402	WIPO				
	111.	03/13/1997	WO 97/09331	WIPO				
	112.	08/21/1997	WO 97/30080	WIPO				
	113.	10/16/1997	WO 97/37995	WIPO				
	114.	03/12/1998	WO 98/09955	WIPO				
	115.	03/12/1998	WO 98/10442	WIPO			Abstract	
	116.	08/12/1999	WO 99/40047	WIPO			Abstract	
	117.	10/14/1999	WO 99/51570	WIPO				
	118.	10/21/1999	WO 99/52923	WIPO			Abstract	
	119.	12/09/1999	WO 99/62623	WIPO				
	120.	05/18/2000	WO 00/28312	WIPO				
	121.	08/09/2001	WO 01/56710	WIPO				
	122.	01/17/2002	WO 02/04918	WIPO				
	123.	11/07/2002	WO 02/88924	WIPO				
	124.	11/07/2002	WO 02/88925	WIPO				
	125.	11/07/2002	WO 02/88926	WIPO				
	126.	11/07/2002	WO 02/88927	WIPO				
	127.	11/07/2002	WO 02/88988	WIPO				
	128.	08/14/2003	WO 03/066646	WIPO				
	129.	08/14/2003	WO 03/067286	WIPO				

OTHER DOCUMENTS *(including author, title, Date, Pertinent Pages, Etc.)*

Examiner Initials	Ref. No.	Title
	130.	Akine, S. et al. (2001). "Synthesis and Crystal Structure of a Novel Triangular Macrocyclic Molecule, Tris(H2saloph), and its Water Complex," *Tetrahedron Letters* 42:8861-8864.
	131.	Albrecht, O. et al. (January 1984). "Polymerizable Built Up Multilayers on Polymer Supports," *Macromolecules* 17(4):937-940.
	132.	Alston, D.R. et al. (1987). "Second Sphere Coordination of Tetraammineplatinum(II) by a Macropolycyclic Crown Ether Bisamide Receptor," *Angew. Chem. Int. Ed. Engl.* 26(7):692-693.
	133.	Amato, I. et al. (September 1999). "Nanotechnology: Shaping the World Atom by Atom," *National Science and Technology Council, Committee on Technology,* Washington, D.C. pp. 1-8.

EXAMINER:	DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.

Form PTO-1449	Docket Number 529212000300	Application Number 10/071,377
INFORMATION DISCLOSURE CITATION IN AN APPLICATION *(Use several sheets if necessary)*	Applicant: Timothy B. KARPISHIN et al.	
	Filing Date February 7, 2002	Group Art Unit 1624
	Hand delivery date: January 28, 2005	

JAN 28 2005 PATENT & TRADEMARK OFFICE

	134.	Antonelli, D. M. et al. (September 1, 1995). "Synthesis of Hexagonally Packed Mesoporous TiO_2 by a Modified Sol-Gel Method," *Angew. Chem. Int. Ed. Engl.* 34(18):2014-2017.
	135.	Aoki, A. et al. (October-November 1998). "Photopatterning Using a Cross-Linkable Polymer Langmuir-Blodgett Film," *Macromolecules* 31(21):7321-7327.
	136.	Arslanov, V.V. (1992). "Monolayers and Langmuir-Blodgett Films of Monomers and Polymers Polyreactions, Structural Transformations, Properties and Applications," *Advances in Colloid and Interface Science* 40:307-370.
	137.	Asfari, Z. et al. (1993). "Synthesis and Properties of Double-Calix[4]arenes, Doubly-Crowned Calix[4]arenes, and Double-Calix-Crowns," *Pure & Appl. Chem.* 65(3):585-590.
	138.	Bacchetti, T. et al. (1952). "Synthesis of Macrocyclic Diketones. I. Thiacyclodiketones," *Gazzetta Chimica Italiana* 82:243-251. (Italian language)
	139.	Bacchetti, T. et al. (1953). "Synthesis of Macrocyclic Diketones. II. Thiacyclo Diketones and Diacetonyl Sulfide," *Gazzetta Chimica Italiana* 83:832-839. (Italian language)
	140.	Baguley, M. E. et al. (1957). "Heterocyclic Imines and Amines. Part VIII. Identification of "o-Cyanothiobenzamide" as 1-Imino-3-Thioisoindoline, and its Conversion With Amines Into Macrocycles and Intermediates," *The Journal of the Chemical Society* Part 1: 709-719.
	141.	Batten, J. H. et al. (August 25-29, 1996). "Synthesis and Langmuir Films of Poly (p-Phenylene Vinylene) Precursors," Abstract No. 141, *Abstracts of Papers, 212th ACS National Meeting*, (August 25-29, 1996) Orlando: FL, one page.
	142.	Batten, J. H. et al. (March 24, 1998). "Langmuir Film Polymerization To Form a Soluble Poly(phenylenevinylene) (PPV) Precursor Polymer," *Macromolecules* 31(9):3148-3150.
	143.	Belanger, F. C. et al. (1984). "Chloroplast Biogenesis - 47. Spectroscopic Study of Net Spectral Shifts Induced by Axial Ligand Coordination in Metalated Tetrapyrroles," *Spectrochim. Acta,* 40A(9):807-827.
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